

Curriculum Vitae

REIAZ UL REHMAN. Ph. D.

Assistant Professor

Department of Bioresources

University of Kashmir

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Academic Qualification

- ✓ Doctorate (2003), Jamia Hamdard (New Delhi, India), Centre for Biotechnology. http://www.jamiahamdard.edu/thesis_chicory.asp
- ✓ Masters (1998), Jamia Hamdard (New Delhi, India), Department of Botany.
- ✓ Bachelors (1996), Aligarh Muslim University (AMU), Aligarh, UP, INDIA, Department of Botany.

Professional Activities

- 2008-2011, Marie Curie International Incoming Fellowship (IIF), University of Lisbon, Lisbon, Portugal.
- 2005-2008, Marie Curie Postdoctoral Research Associate, University of Salento, Lecce, Italy.
- 2003-2005, Postdoctoral Research Associate, University of Louisville, Kentucky, USA.
- 1998-2003, Senior Research Fellow, Jamia Hamdard, New Delhi, India.
- 1996-1998, Junior Research Fellow, Jamia Hamdard, New Delhi, India.

Research Projects

1. Accelerating domestication of Buckwheat through conventional breeding and Biotechnological approaches (Submitted)
2. "Evaluation of Salt Stress Tolerance of *Setaria italic* L." Innovative Research Activities" Head of 12th Plan.
3. Studying plant cell secretion and membrane trafficking. Marie Curie International Incoming Fellowship (IIF), FFCUL, Lisboa, Portugal. (Principal Investigator) Local coordinator Prof. Rui Malho.
4. Development of new molecular tools to study secretion in plant cells (Marie Curie Postdoctoral Fellowship, 6th Framework, University of Salento, Lecce, Italy). (Member of the team).
5. Effect of cysteine proteinases and their inhibitors in tumor invasion and metastasis. (University of Louisville, KY, USA (Member of the team).

6. Vegetable oil blending to develop nutritionally good quality cooking oil" Sponsored by Technology Mission on oil seeds, pulses and Maize (CSIR), Ministry of Agriculture and Cooperation, Govt. of India. **(Member of the Team)**.
7. Development and utilization of soluble S-glass frits for the optimization of seed and oil yield in rapeseed-mustard"-Sponsored by Technology Mission on oil seeds, pulses and Maize (CSIR), Ministry of Agriculture and Cooperation, Govt. Of India. **(Member of the Team)**.

Awards

1. 2008, International Incoming Fellowship (IIF), European Commission, Marie Curie Actions(IIF), 7th Framework Programme on Research.
2. 2002, Best Presentation, National Seminar on recent Research Trends in Life Sciences. University of Kashmir, Srinagar-190006.
3. 2002, Senior Research Fellowship, Sponsored by Technology Mission on oil seeds, pulses and Maize (CSIR) Ministry of Agriculture INDIA
4. 2001, Junior Research Fellow, Hamdard National Foundation, Hamdard University, New Delhi-110 062.

Memberships

- American Society of Plant Biologists (ASPB).

Publications

A. Thesis:

- ✓ Ph.D. Thesis: "Studies on regeneration in chicory (*Cichorium intybus* L.) and transformation by *Agrobacterium tumefaciens*" (2003). Jamia Hamdard (New Delhi, 110062,India)http://www.jamiahamdard.edu/thesis_chicory.asp.
- ✓ MSc Thesis: "Physiochemical impact of the foliar applied sulphur on the growth and field performance of *Brassica campestris* L.CV. Pusa Gold." Jamia Hamdard.

B. Book:

1. Edited volume on "***Plant Signalling: Understand molecular cross talk***". (2013) Editors: **Dr. Reiaz Ul Rehman**, Dr. Khalid Rehman Hakeem, Prof. Inayatullah Tahir
Publisher: Springer Science+Business Media, LLC; 233 Spring Street, New York, NY 10013,USA ISBN 978-81-322-1542-4 online, ISBN 978-81-322-1541-7
 Hardcover<http://www.springer.com/life+sciences/biochemistry+%26+biophysics/book/978-81-322-1541-7>

2. Edited Volume on *"Polyploidy: Recent Trends and Future Perspectives"*. Editors Tanveer Ul Hasan Dar, Reiaz Ul Rehman (2017) Publisher:Springer ISBN 978-81-322-3772-3 <http://www.springer.com/in/book/9788132237709>

c. **Book Chapters:**

1. M.Z.Abdin, **R.U.Rehman**, M.Israr, P.S.Srivastava and K.C.Bansal.Development of transgenic chicory (*Cichorium intybus* L). **In: In vitro application in crop improvement: Recent Progress : IBH Oxford, India. Ed A.Mujeeb 2004.**
2. **Reiaz ul Rehman. (2013)** Cyclic nucleotide gated channels-Essential signalling components in plants for fertilization and immunity responses Edited volume on *"Plant Signalling: Understand molecular cross talk"*. Publisher: Springer Science+Business Media, LLC; 233 Spring Street, New York, NY 10013, USA. Editors: **Dr. Reiaz Ul Rehman**,Dr. Khalid Rehman Hakeem, Prof. Inayatullah Tahir ISBN 978-81-322-1542-4 online, ISBN 978-81-322-1541-7
3. **Reiaz ul Rehman**, Gian-Pietro Di Sansebastiano.(2013) Plant Rab GTPases in membrane trafficking and signaling Edited volume on *"Plant Signalling: Understand molecular cross talk"*. Publisher: Springer Science+Business Media, LLC; 233 Spring Street, New York, NY 10013, USA. Editors: **Dr. Reiaz Ul Rehman**,Dr. Khalid Rehman Hakeem, Prof. Inayatullah Tahir ISBN 978-81-322-1542-4 online, ISBN 978-81-322-1541-7.
4. **Reiaz ul Rehman**, Gian-Pietro Di Sansebastiano (2013) SNARE proteins as signalling elements.Edited volume on *"Plant Signalling: Understand molecular cross talk"*. Publisher: Springer Science+Business Media, LLC; 233 Spring Street, New York, NY 10013, USA. Editors: **Dr. Reiaz Ul Rehman**,Dr. Khalid Rehman Hakeem, Prof. Inayatullah Tahir ISBN 978-81-322-1542-4 online, ISBN 978-81-322-1541-7 Hardcover.
5. Bisma Malik, Tanveer Bilal Pirzadah, Inayatullah Tahir, **Reiaz ul Rehman**, M.Z.Abdin Plant signaling: response to reactive oxygen species.Edited volume on *"Plant Signalling: Understand molecular cross talk"*. Publisher: Springer Science+Business Media, LLC; 233 Spring Street, New York, NY 10013, USA. Editors: **Dr. Reiaz Ul Rehman**, Dr. Khalid Rehman Hakeem, Prof. Inayatullah Tahir ISBN 978-81-322-1542-4 online, ISBN 978-81-322-1541-7 Hardcover.
6. Tanveer Bilal Pirzadah, Bisma Malik, Khalid ul Rehman Hakeem, **Reiaz ul Rehman**, Irfan Ahmad Quershi .Signaling in response to cold stress.Edited volume on *"Plant Signalling: Understand molecular cross talk"*. Publisher: Springer Science+Business Media, LLC; 233 Spring Street, New York, NY 10013, USA.

Editors: **Dr. Reiaz Ul Rehman**, Dr. Khalid Rehman Hakeem, Prof. Inayatullah Tahir
ISBN 978-81-322-1542-4 online, ISBN 978-81-322-1541-7, Hardcover.

7. Khalid Rehman Hakeem, Muhammad Sabir, Faheema Khan, **Reiaz ul Rehman**. Nitrogen regulation and signalling in plants. Edited volume on *“Plant Signalling: Understand molecular cross talk”*. Publisher: Springer Science+Business Media, LLC; 233 Spring Street, New York, NY 10013, USA. Editors: **Dr. Reiaz Ul Rehman**, Dr. Khalid Rehman Hakeem, Prof. Inayatullah Tahir ISBN 978-81-322-1542-4 online, ISBN 978-81-322-1541-7 Hardcover.
8. Tanveer Bilal Pirzadah, Bisma Malik, Manoj Kumar, **Reiaz Ul Rehman**. Lignocellulosic biomass: As future alternative for bioethanol production. Edited volume on *“Biomass and Bioenergy: Processing, Properties and Applications”*. Publisher: Springer Science+Business Media, LLC; 233 Spring Street, New York, NY 10013, USA. Editors: Dr. Khalid Rehman Hakeem, Dr. Mohammad Jawiad, Dr. Umer Rashid. ISBN 978-3-319-07578-5 (ebook) ISBN 978-3-319-07577-8 (Hardcover).
9. Tanveer Bilal Pirzadah, Bisma Malik, Inayatullah Tahir, Manoj Kumar, **Reiaz Ul Rehman** (2014). Phytoremediation: An eco-friendly green technology for pollution prevention, control and remediation. Soil remediation and plants [Publisher: Elsevier](#) ISBN 9780127999371.
10. Bisma Malik, Tanveer Bilal Pirzadah, Sheikh Tajamul Islam, Inayatullah Tahir , Manoj Kumar, **Reiaz Ul Rehman** (2015). Biomass pellet technology: A green approach for sustainable development. Edited volume on *“Agricultural biomass based potential material”* ISBN: 978-3-319-13846-6. Springer International.
11. Tanveer Bilal Pirzadah, Bisma Malik, Sikandar Farooq, Inayatullah Tahir, **Reiaz Ul Rehman** (2016). Cultivation, Agronomic practices and growth performance of Buckwheat. Edited vol. on *“Molecular Breeding and Nutritional Aspects of Buckwheat”* By Meiliang Zhou, Ivan Kreft, Sun-Hee Woo, Nikhil Chrungoo and Gunilla Wieslander. Elsevier Publications. **ISBN NO.:**0128037148, 9780128037140.
12. Bisma Malik, Tanveer Bilal Pirzadah, Inayatullah Tahir, Imtiyaz Murtaza, **Reiaz Ul Rehman** (2015). Phenomics Science: An integrated inter-disciplinary approach for crop improvement. Apple Academic Press Inc. 9 Spinnaker Way Waretown, NJ 08758 USA.
13. Bisma Malik, Tanveer Bilal Pirzadah, Manoj Kumar, **Reiaz Ul Rehman** (2017) Biosynthesis of Nanoparticles and their application in pharmaceutical industry. Springer International. DOI: 10.1007/978-981-10-4678-0_13.

14. Tanveer Bilal Pirzadah, Bisma Malik, Manoj Kumar, **Reiaz UI Rehman** (2017). Cellulases: Industrial workhorse in bioenergy sector. Springer International DOI: 10.1007/978-981-10-4678-0_13.
15. Fayaz Ahmad Dar, Tanveer Bilal Pirzadah, Bisma Malik, Inayatullah Tahir, **Reiaz UI Rehman** (2017) Molecular genetics of buckwheat and its role in crop improvement. In Buckwheat germplasm in the world. By Meiliang Zhou, Ivan Kreft, Yu Tang, Galina Suvorova. Elsevier Publications. Elsevier Publication. ISBN: 9780128110065.

Papers in international scientific periodicals with referees:

1. Aadil Rasool, Wasifa Hafiz Shah, Inayatullah Tahir, **Reiaz UI Rehman** "Salicylic Acid – A mitigating agent for conferring stress tolerance in plants" (Manuscript No. Advpp-18 2017-18/IARI/017) Volume 18, **Advances in Plant Physiology** Series [ISSN: 0972-9917].
2. Wasifa Hafiz Shah, Aadil Rasool, Inayatullah Tahir, **Reiaz UI Rehman** "Non-Reducing Sugars for combating plant abiotic stresses" (Manuscript No. Advpp-18 2017-18/IARI/18) Volume 18, **Advances in Plant Physiology** Series [ISSN: 0972-9917].
3. Tanveer Bilal Pirzadah, Bisma Malik, Inayatullah Tahir, Qureshi M. Irfan & Reiaz UI Rehman (2017) Characterization of mercury-induced stress biomarkers in *Fagopyrum tataricum* plants, International Journal of Phytoremediation, 20:3, 225-236, DOI: [10.1080/15226514.2017.1374332](https://doi.org/10.1080/15226514.2017.1374332) Taylor and Francis **IF 2016 (1.770)**
4. Tanveer Bilal Pirzadah, Bisma Malik, Inayatullah Tahir, **Reiaz UI Rehman (2016)**. Metabolite profiling of tartary buckwheat - An underutilized nutraceutical crop of Kashmir Himalaya. Journal of Phytology 2016, 8: 49-54 <http://scienceflora.org/journals/index.php/jp/> doi: 10.19071/jp.2016.v8.3106. ISSN: 2075-6240
5. Tanveer Bilal Pirzadah, Bisma Malik, Inayatullah Tahir, Mohammad Irfan Qureshi, **Reiaz UI Rehman (2016)**. Metabolite Fingerprinting and Antioxidant Potential of Tartary Buckwheat- an Underutilized Pseudocereal crop from Kashmir Region. **Free Radicals and Antioxidants 2016; 7(1): 95-106.** <https://phcog.net/content/free-radicals-and-antioxidants> ISSN: 2231-2536. **IF 2016 (0.939)** published by Elsevier on behalf of SciBiolMed.Org and Phcog.Net.
6. Tanveer Bilal Pirzadah, Bisma Malik, Inayatullah Tahir, **Reiaz ul Rehman (2016)** Vivipary in *Fagopyrum esculentum*. Folia Biologica ET Geologica. 57 (2): 5-59. ISSN: 2335-2914 Slovenian Academy of Sciences and Arts
7. Bisma Malik, Tanveer Bilal Pirzadah, Inayatullah Tahir, **Reiaz ul Rehman (2017)**. Chemo-profiling, Antioxidant potential and Ionomic analysis of *Cichorium intybus*

- L. Pharmacognosy Journal. 9 (6): 917-928.doi:10.5530/pj.2017.6.144.ISSN:0975-3575 SCOPUS
8. Tanveer Bilal Pirzadah, Bisma Malik, Inayatullah Tahir, **Reiaz UI Rehman** (2017). Antioxidant potential and Ionomeric analysis of two buckwheat species from Kashmir region. Pharmacognosy Journal. 9(1): 73-82. Doi: 10.5530.pj.2017.14 ISSN:0975-3575 SCOPUS
 9. Bisma Malik, Tanveer Bilal Pirzadah, Inayatullah Tahir, Malik Zainul Abdin, **Reiaz UI Rehman (2016)**. Phytochemical studies on *Cichorium intybus* L. (chicory) from Kashmir Himalaya using GC-MS. **Journal of Pharmacy Research 2016,10(11),715-726**. http://jprsolutions.info/about_us.php ISSN: 0974-6943. UGC approved
 10. Fayaz Ahmad Dar, Susheel Verma, **Reiaz UI Rehman**. Genetic Diversity Assessment of *Phaseolus vulgaris* L. in Two Himalayan Districts of India. **Proceedings of the National Academy of Sciences, India Section B: Biological Sciences1-9,doi:10.1007/s40011-016-0742-y**.<http://link.springer.com/article/10.1007/s40011-016-0742-y> ISSN: 0369-8211 (print version) ISSN: 2250-1746 (online) IF (0.396)
 11. Malhó R, Serrazina S, Saavedra L, Dias FV and Rehman RU (2015) Ion and lipid signaling in apical growth—a dynamic machinery responding to extracellular cues. **Front. Plant Sci. 6:816**. doi: 10.3389/fpls.2015.00816 ISSN: 1664-462X IF (4.298)
 12. Tanveer Pirzadah, Shashank Garg, Joginder Singh, Ashish Vyas, Manish Kumar, Naseem Gaur, Madhu Bala, **Reiaz UI Rehman**, Ajit Varma, Vivek Kumar and Manoj Kumar. (2014) Characterization of Actinomycetes and Trichoderma spp. for cellulase production utilizing crude substrates by response surface methodology. **SpringerPlus, 3:622. IF(0.982)** ISSN: 2193-1801
 13. Tanveer Bilal Pirzadah, Bisma Malik, Inayatullah Tahir, **Reiaz ul Rehman**. 2013. Buckwheat: An introspective and future perspective with reference to Kashmir Himalayas. Proc. 12th Intl. Symp. Laško, Slovenia. pp. 212-215. ([Proceedings of International Symposium 21-25 Aug. 2013](#)).
 14. **Reiaz UI Rehman**, Sara Rinalducci, Lello Zolla, Giuseppe Dalessandro, Gian Pietro Di Sansebastiano. *Nicotiana tabacum* protoplasts secretome can evidence relations among regulatory elements of exocytosis mechanisms. (**Plant Signalling and behavior 2011. 6(8):1140-1145**) . doi: [10.4161/psb.6.8.15750](https://doi.org/10.4161/psb.6.8.15750)
 15. **Reiaz UI-Rehman**, Pedro Angelo and Rui Malho *Arabidopsis* SYP125 syntaxin localization reveals Sub-apical zones of pollen tubes as predominant sites of exocytosis. (**Plant Signalling and behavior.2011 6(5):665-670**).

16. Pedro Ângelo Silva, **Reiaz Ul-Rehman**, Cláudia Rato, Gian-Pietro Di Sansebastiano and Rui Malhó, Asymmetric localization of Arabidopsis syntaxins at the pollen tube apical and sub-apical zones is important for tip growth (***BMC Plant Biology* 2010, 10:179.(August 2010)** <https://doi.org/10.1186/1471-2229-10-179> **IF (4.541)** ISSN: 1471-2229.
17. **R.U.Rehman**, E.Stigliano, G. Lycett, L. Sticher, S. Franchesca, G. Dalessandro and G.P.Di Sansebastiano. Tomato Rab11a characterization evidenced a difference between SYP121 dependent and SYP122-dependent exocytosis. (***Plant Cell Physiology*.2008;49(5):751-766**). **IF (4.817)** **ISSN: 1471-9053** DOI:10.1093/pcp/pcn051
18. Gian Pietro Di Sansebastiano, **Reiaz Ul Rehman**, Jean-Marc Neuhaus. Development of rat β -glucuronidase as a reporter protein for the analysis of the plant secretory pathway (***PlantBiosystems* 2007:141(3):329-336**). **DOI: 10.1080/11263500701627513. IF(1.390)**
19. Gopal P., Rehman R. U, Chadha K. S, Colella R.Attachment to Matrigel results in a redistribution of cathepsinB in prostate cancer PC3 cells. *Oncology Reports* 2006 16(2):313-321 ISSN: 1791-2431 **IF: 2.662**
20. **R.U.Rehman**, M.Israr, K.C.Bansal, P.S.Srivastava and M.Z.Abdin. In vitro regeneration of witloof chicory (*Cichorium intybus* L.) from the leaf explants and accumulation of esculin. In Vitro Cell.Dev.Biol.-Plant (2003) 39: 142- **146**). <https://doi.org/10.1079/IVP2002381> **IF (1.024)**
21. M.Z.Abdin, M.Israr, **R.U.Rehman** and S.K.Jain. Artemisinin a novel antimalarial drug: Biochemical and molecular approaches for enhancing production. (***Planta Medica* 2003 69(4):289-299**). DOI: 10.1055/s-2003-38871 **ISSN: 1439-0221 IF (2.34)**
22. M.Z.Abdin, R.U.Rehman, M.Israr, P.S.Srivastava and K.C.Bansal. Abiotic stress related genes and their role in conferring resistance in plants. (Ind.J.Biotech. 2002 1: 225-244). *IF (0.289)* ISSN: 0975-0967

D. Teaching Experience

Courses Teaching at the MSc Level: Secondary Metabolism; Plant Biotechnology; Bioinformatics; Bioenergy and Biofuels; Microbial Technology; Cellular and Molecular Biology; Plant Diet and Human Health; Bioresource management.

E. Research Experience

Seven full time registered research scholar's persuing their PhD degree.

1. **Ms Bisma Malik (Supervisor): Awarded**
2. **Mr Tanveer Bilal Peerzada (Supervisor): Awarded**
3. **Mr Fayaz Ahmad Dar (Supervisor)**
4. **Mr. Sajad Ahmad Padder (Supervisor)**

5. **Ms. Asiya Ramzan (Supervisor)**

6. **Adil Rasool (Supervisor)**

7. **Ms Wasifa (Supervisor)**

G. **M.Phil (Awarded/Submitted)**

1. **Mr. Sajad Ahmad Padder : Submitted (Supervisor)**

5. **Ms. Asiya Ramzan: Submitted (Supervisor)**

H. **Fellows**

1. **Ms Bisma Malik (Mentor: Dr Reiaz Ul Rehman):**Women Scientist Scheme (Wos-A :
File No: SR/WOS-A/LS-1278/2015):

2. **Ms Arifa (Mentor: Dr Reiaz Ul Rehman): DST-NPDF Fellowship.**

I. **Other Activities**

Member departmental Research committee, board of studies, Examination panel ,
Admission committee, Purchase committee, University accreditation committee for
equipments

J. **Reviewer**

Active reviewer of many journals